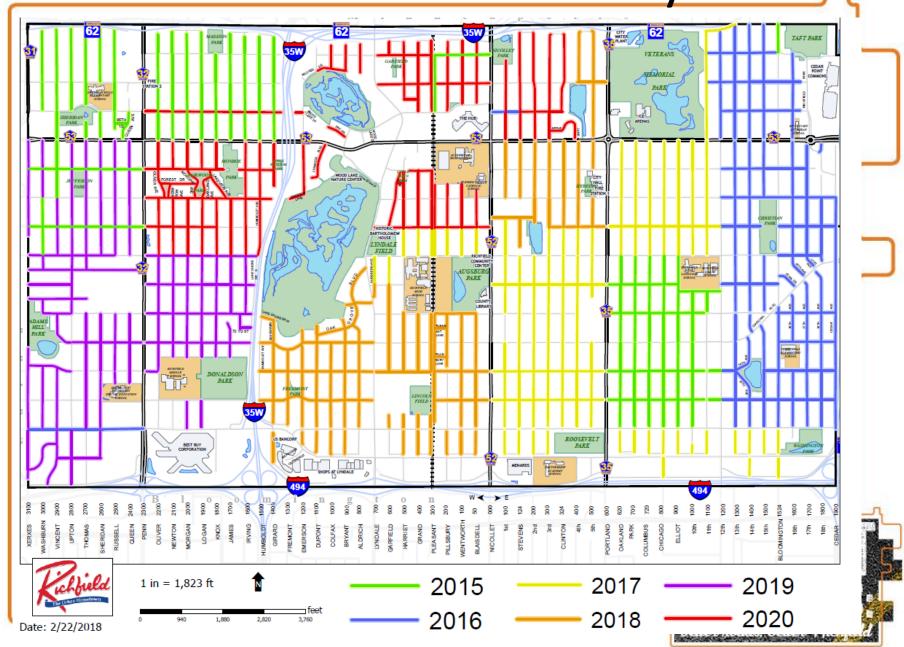
Street Pavement Preservation



February 27, 2018

6-Yr Mill and Overlay



Past Pavement Preservation

Chip Seal Surface Treatment



Problems and Concerns



Evolving Trends and Options

Reclamite® - Maltene Based Rejuvenator





Maltene Rejuvination

- Adds Maltenes Fractions back into Asphalt Surface
 - Penetrates top ½" to 3/8" of pavement
 - Becomes "part" of the pavement
 - "In Depth Seal"
 - Increases Flexibility & Durability
 - Decreases Brittleness
- Seals Surface
- Closes Surface Voids
- Increases Pavement Life 5 to 7 yrs



Application











Limestone screenings applied for traction and swept up 24 hours later



Evolving Trends and Options



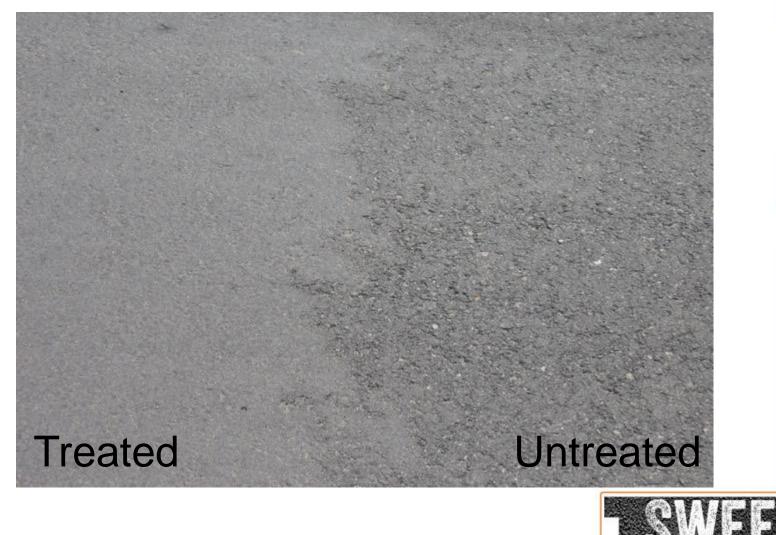


After 25 Days





After 4 Years





Rain/Snow Impact





Untreated Side

Treated Side

Snow Event



6-Yr Mill and Overlay

M&O - Midway Status Update

Year	Total Budget	Actual Concrete	Actual Mill & Overlay	Actual Chip Seal	Balance
2014	\$876,000	\$896,000	\$0	\$0	\$(20,000)
2015	\$3,250,000	\$905,000	\$2,371,500	\$0	\$(26,000)
2016	\$3,137,400	\$1,255,100	\$2,081,600	\$112,600	\$(199,300)
2017	\$3,250,000	\$512,000	\$1,945,500	\$0	\$546,700
2018	\$3,250,000	\$	\$	\$0	\$3,796,700
2019	\$3,250,000	\$	\$	\$0	\$
2020	\$2,466,666	\$	\$	\$0	\$
2021+	\$750,000	\$	\$	\$	\$



6-Yr Mill and Overlay

M&O - Midway Status Update

Year	Total Budget	Actual Concrete	Actual Mill & Overlay	Actual Chip Seal	Proposed Reclamite	Balance
2014	\$876,000	\$896,000	\$0	\$0		\$(20,000)
2015	\$3,250,000	\$905,000	\$2,371,500	\$0		\$(26,000)
2016	\$3,137,400	\$1,255,100	\$2,081,600	\$112,600		\$(199,300)
2017	\$3,250,000	\$512,000	\$1,945,500	\$0		\$546,700
2018	\$3,250,000	\$	\$	\$0	\$530,000	\$
2019	\$3,250,000	\$	\$	\$0	\$545,000	\$
2020	\$2,466,666	\$	\$	\$0	\$	\$
2021+	\$750,000	\$	\$	\$0	\$550,000	\$



Dollars and "Sense"

- Maltene Rejuvenator over 3-4 years
 - 2018: 2015/2016 M&O Areas (Funded*)
 - 2019: 2017/2018 M&O Areas
 - 2021: 2019/2020 M&O Areas
- Evaluate performance over time and study results
- Restorative seal vs chip seal at around 10th year of life
 - 5 years later than previous program

Staff Recommendation

- Maltene Rejuvenator over 3-4 years
- Evaluate performance over time
- Restorative seal vs chip seal at year 10-ish?



Questions?

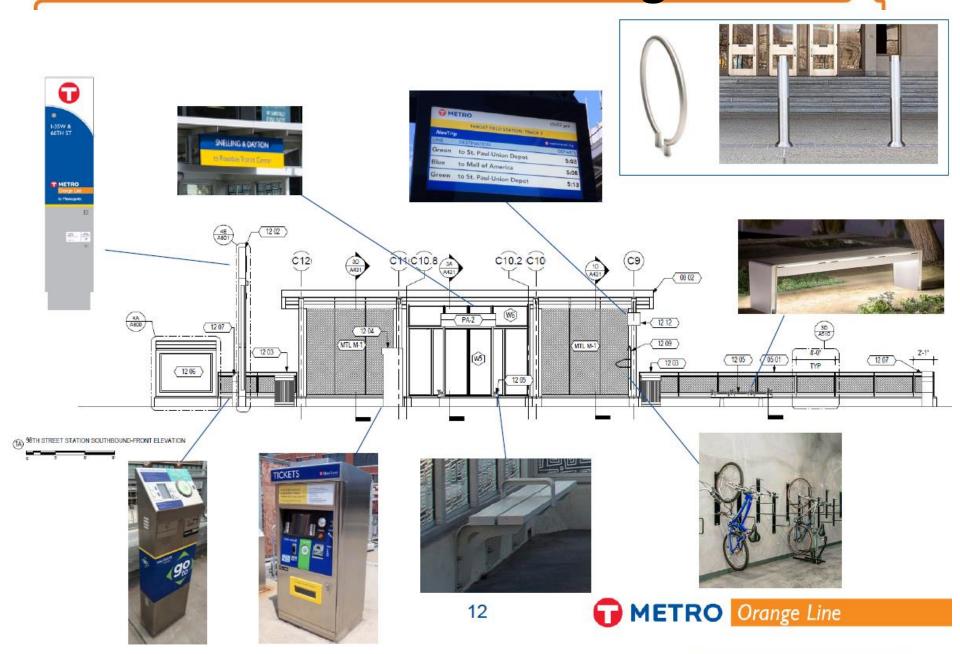


Orange Line Station Plan



February 27, 2018

Station Furnishings







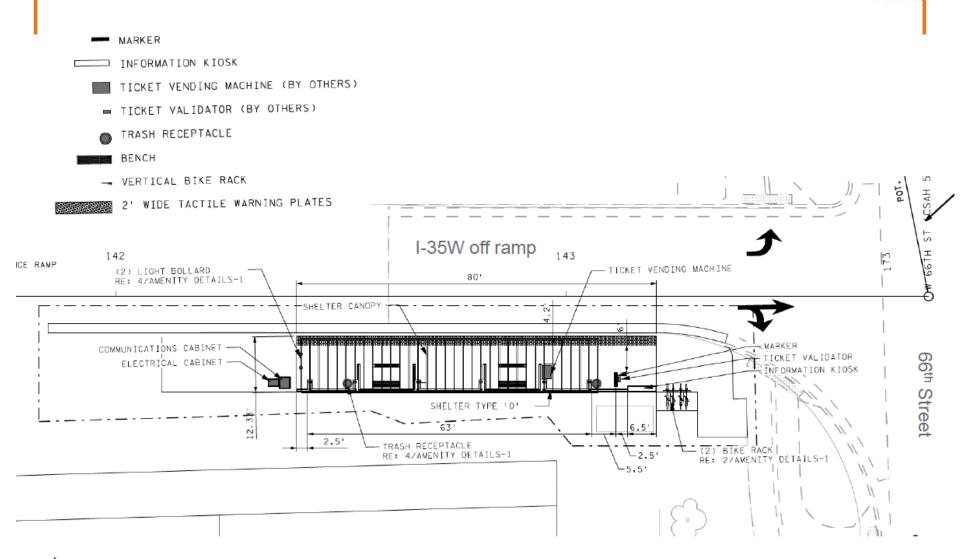
Station Layout



- Connecting eastbound bus stops
- Connecting westbound bus stops
- walking route
 - walking route



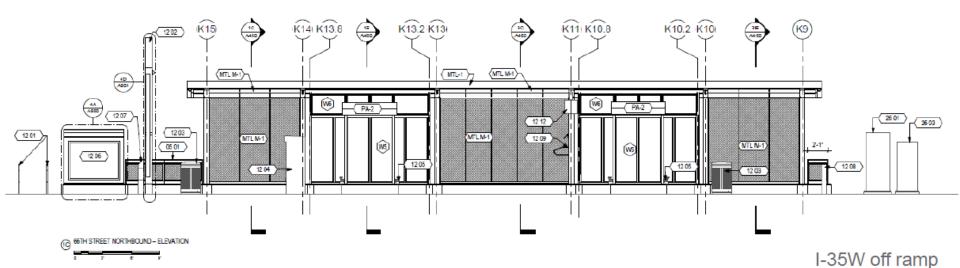
Northbound Station



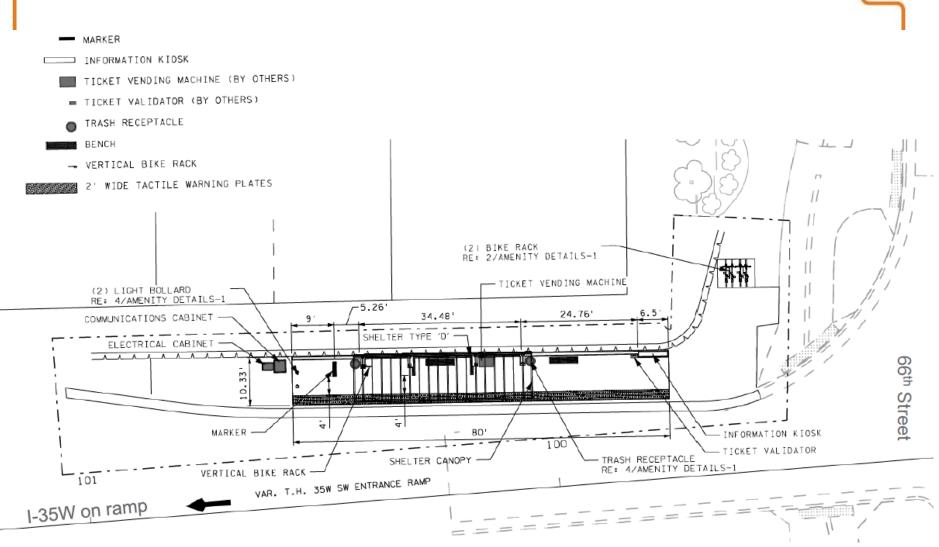


Northbound Station

North to I-35W

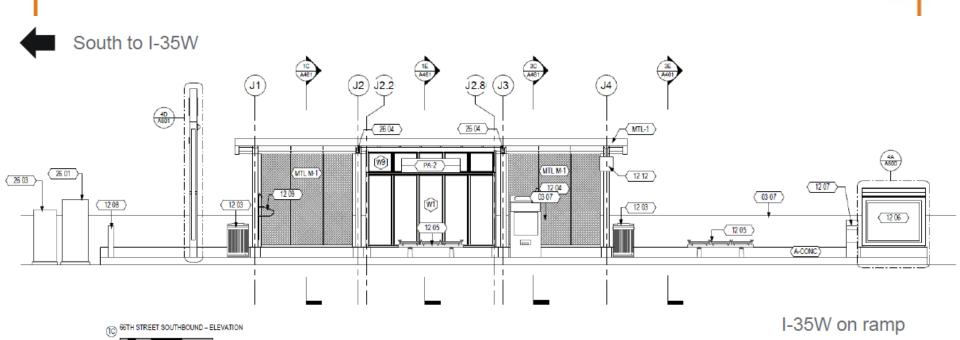


Southbound Station





Southbound Station

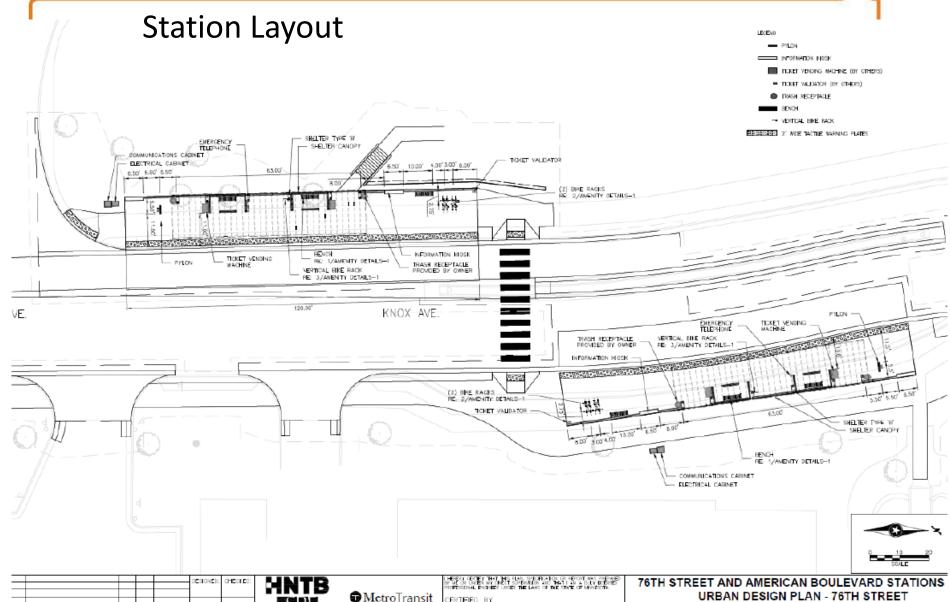


International Blvd Station (76th St)

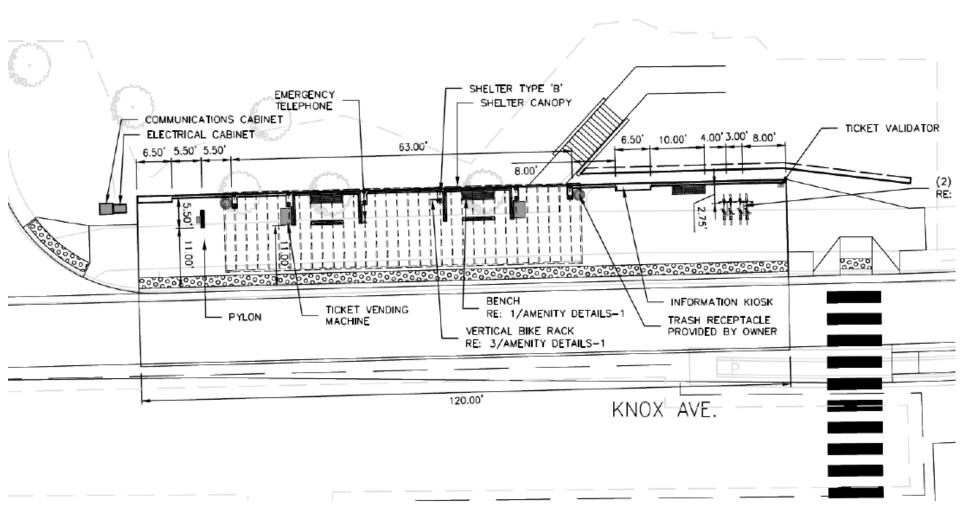




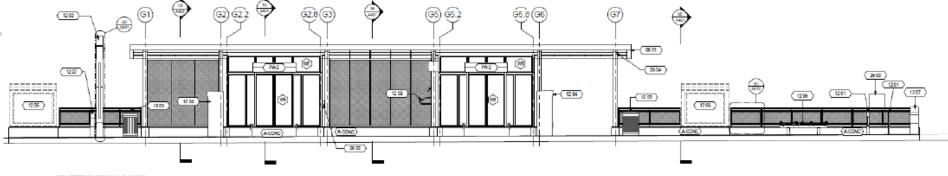
76th Street



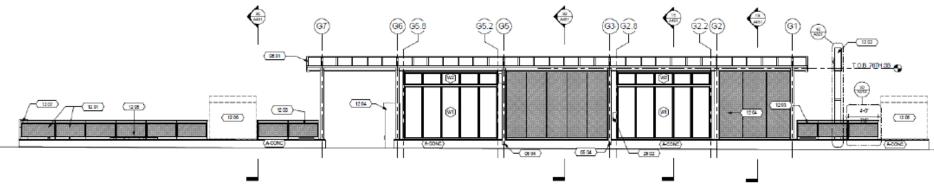
Southbound Station



Southbound Station







76TH STREET SOUTHBOUND - ELEVATION

GENERAL NOTES

KEYNOTES

05.04 POLYCARBONATE CANOPY 08/01 MOUNTED LOGGED RIKE BACK, SEE LIBRAN DESIGN

WASTE RECEPTACLE, SEE URBAN DESIGN DWGS 12 03 TICKETING VENDING MACHINE, SEE 12.04

COMMUNICATIONS DESIGN DWGS. BENCH, SEE URBAN DESIGN DWGS KIOSK, OWNER PROVIDED

SWART CARD VALIDATOR, SEE URBAN DESIGN DWGS

VERTICAL BIKE BACK

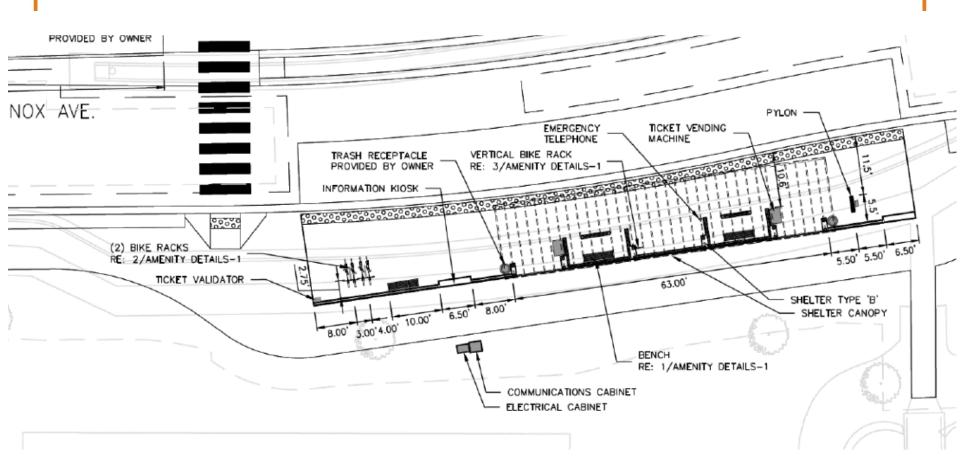
COMMUNICATION CASINET, SEE COMMUNICATION 26-03

26.04

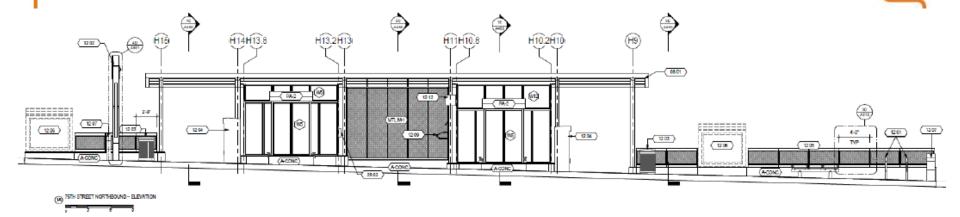
LIGHT, SEE ELECTRICAL DRAWINGS ETEL, SEE COMMUNICATION DRAWINGS MATERIAL OR TYPE KEYNOTES

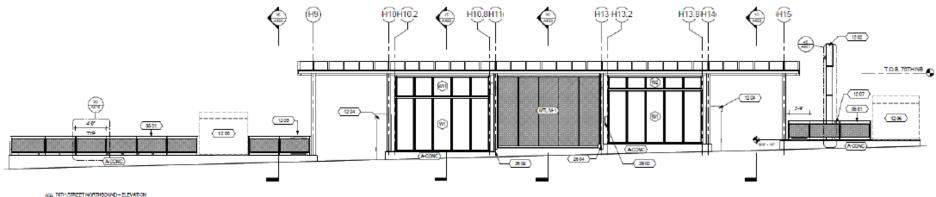
ANOHITECTURAL CONCRETE SIGNAGE

Northbound Station



Northbound Station





GENERAL NOTES

KEYNOTES

69 01 POLYCARBONATE DWODY
12 01 DWOS
12 02 MATRIER DOPED BIKE FROX, SEZ URBAN DESIGN
12 02 MATRIER
12 03 WASTE KECEPTACLE, SEE URBAN DESIGN DWGS
10 02 TOTAL SECURITION OF THE SEE

GUARDRAIL WITH METAL MESH

12 04 TICKETING VENDING MACHINE, SEE COMMUNICATIONS DESIGN DWGS 12 06 BENCH, SEE URBAN DESIGN DWGS

12 06 KIOSK, OWNER PROVIDED
12 07 SWART CARD VALIDATOR, SEE URBAN DESIGN DWGS
12 09 VERTICAL BIKE NACK

12 08 VERTICAL BIKE MACK
VARIABLE MESSAGE SIGN, SEE COMMUNICATIONS
DRAWINGS

26 04 LIGHT, SEE ELECTRICAL DRAWINGS 28 02 ETEL SEE COMMUNICATION DRAWINGS

METRO Orange Line

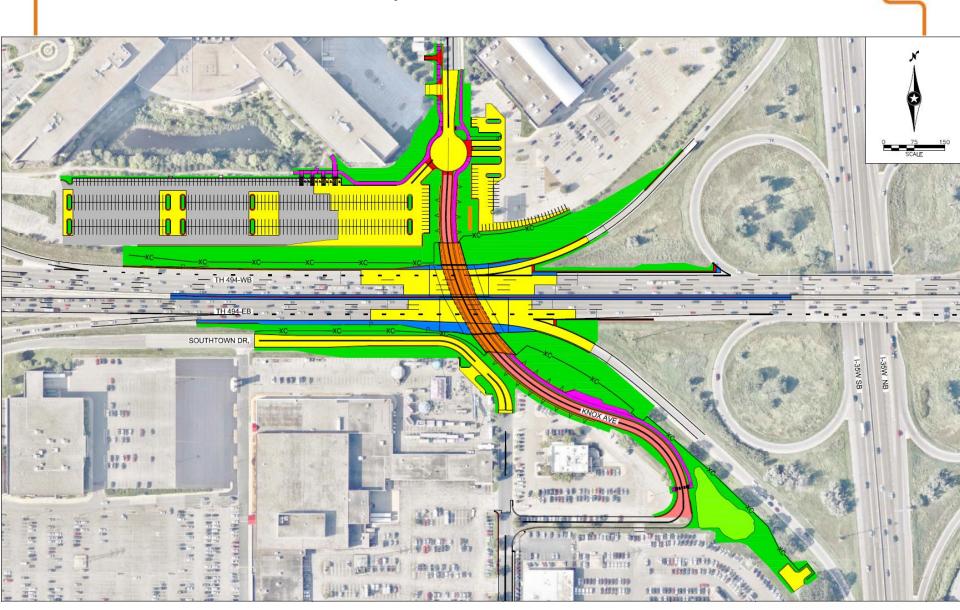
MATERIAL OR TYPE KEYNOTES

ARCHITECTURAL CONCRETE

EXPANDED METAL MESH

I-494 Crossing

Knox Avenue Transitway



77th Street East Extension and TH 77 **Bridge Aesthetic Concepts** 77 HT 77th Street 27R36 27R38 27R37 27R35 77th Street View 1 **TH 77**

Legend:

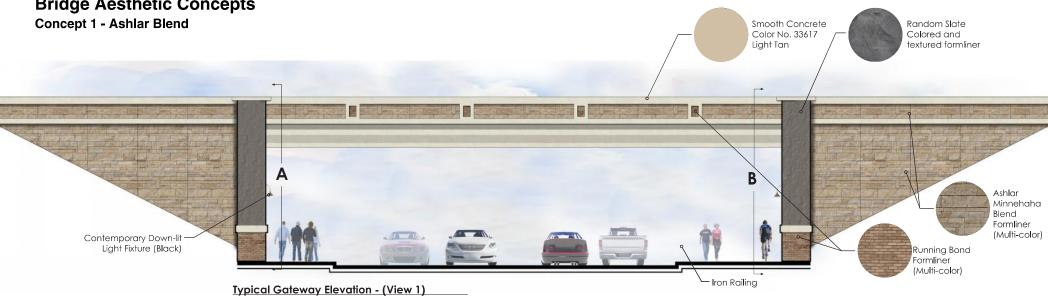
Gateway facades and wing walls

Internal facades and wing walls

Abutments and Walls







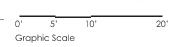


A Typical Abutment and Wall Treatment

<u>Design:</u>

- 4' wide vertical columns
- Pronounced caps on top of vertical columns
- Continuous concrete band on columns and abutments
- Concrete texture applied to abutments will also be applied to retaining walls.
- 3 formliner textures
- Ornamental metal (black) railing on top of retaining wall













Graphic Scale

77th Street East Extension and TH 77

Bridge Aesthetic Concepts

Concept 1 - Ashlar Blend Night Rendering



Typical Gateway Elevation - (View 1)











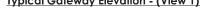


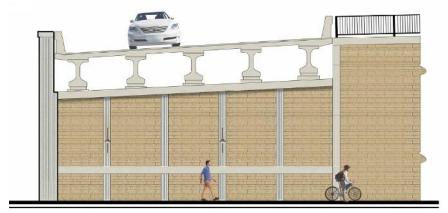
77th Street East Extension and TH 77

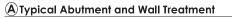


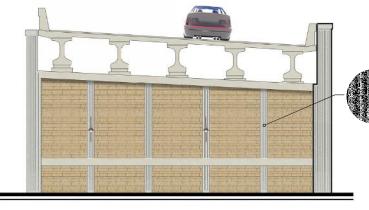












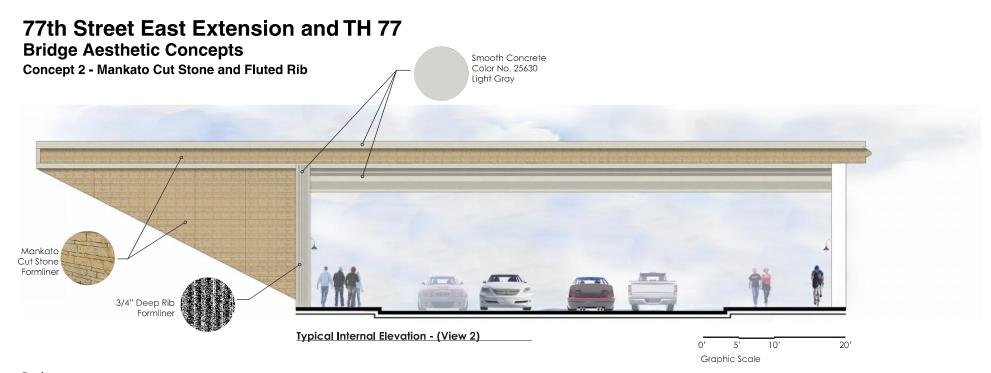
B)Typical Abutment Treatment

20' Graphic Scale



3/4" Deep Rib





Design:

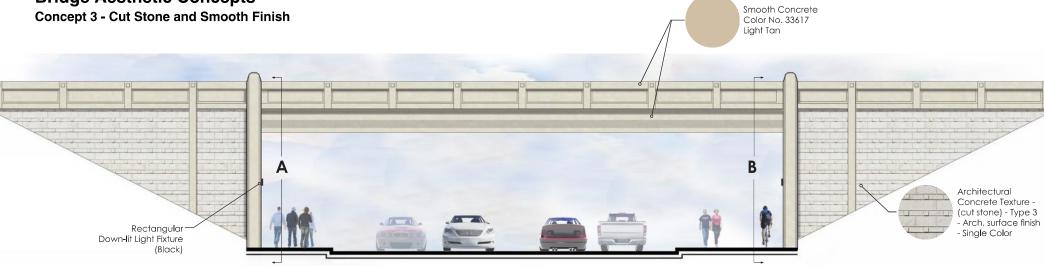
- 2' wide vertical columns
- Single formliner texture on retaining walls





77th Street East Extension and TH 77

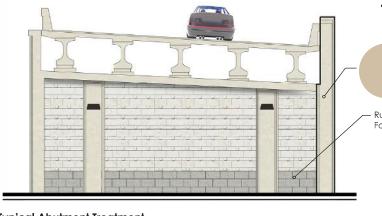




Typical Gateway Elevation - (View 1)



A Typical Abutment and Wall Treatment



B)Typical Abutment Treatment

20' Graphic Scale

 Aesthetics of bridge to mimic the 35W/TH 62 bridge over Lyndale Avenue

> Smooth Concrete Color No. 33617 Light Tan

Running Bond Formliner (Gray)



